

ABSTRACT OF THE DISCLOSURE

This invention includes an RGB color camera for photographing an object under photographing illumination light, <sup>a</sup> simplified <sup>spectrophotometer</sup> ~~spectrometer~~ for measuring a photographing illumination light spectrum, and <sup>a</sup> color correction device for calculating tristimulus value data of the object and converting the data into an input signal to a CRT monitor by using monitor profile data. On the observation side, a CRT monitor and illumination light colorimeter for measuring the tristimulus values of observation illumination light are arranged. A color correction device can perform color reproduction without being influenced by changes in the color perception characteristics of a person such as <sup>chromatic</sup> ~~color~~ adaptation by reproducing a virtual illumination light spectrum having tristimulus values equal to those of the observation illumination light without measuring any observation illumination light spectrum.